# EES-KH25 Knight Guard Knight Guard LED Small Slimline Area. Wall, and Flood Light



Project Name:	— Project Information —	Fixture Type:
Complete Catalog #:		Date:
Comments:		

The EnviroLux Large Slimline area light With Knight Guard Technology is designed to produce less than 2 percent blue light and to specifically to replace incumbent Low Pressure Sodium light sources and produce higher efficiency than Amber light sources Typical area lighting applications include retail centers, industrial parks, airports, and office buildings, close to observatories and beaches where less than 2 percent blue light for environmental lighting codes apply. Mounting heights of 24 to 40 feet can be used based on light level and uniformity requirements.

## **Specifications and Features: Housing:**

Die Cast Aluminum Housing and Front Frame, Integral Heat Sinking and Driver Compartment. Photocell Adaptable. Nickel-Plated Stainless Steel

#### **Listing & Ratings:**

ETL: Listed for Wet Locations, ANSI/UL 1598, 8750 IP66 Sealed LED Compartment.

Textured Architectural Bronze Powdercoat Finish Over a Chromate Conversion Coating. Custom Colors Available Upon Request.

Tempered Clear Flat or SoftLED Flat Glass Lens

#### **Mounting Options:**

Mounts with Side Mount Pole Arm, Adjustable Slipfitter, 2%" Diameter Mounting Arm Adapter, Yoke, Two-Piece Bracket or Easy Hang Wall Bracket (Factory Installed).

#### **Knight Guard LED: Aluminum Metal Core Boards with 2oz Coper Inlay** < 2 percent Blue Light

Electronic Driver, 120-277V, 50/60Hz or 347-480V, 50/60Hz (65 & 81w Models Only); Less Than 20% THD and PF>0.90. Standard Internal Surge Protection 6kV. 0-10V Dimming Standard for a Dimming Range of 100% to 10%; Dimming Source Current is 150 Microamps.

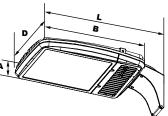
#### **Controls:**

Fixtures Ordered with Factory-Installed Photocell or Motion Sensor Controls are Internally Wired for Switching and/or 1-10V Dimming Within the Housing. Remote Direct Wired Interface of 1-10V Dimming is Not Implied and May Not Be Available, Please Consult Factory. Fixtures are Tested with EnviroLux Controls and May Not Function Properly With Controls Supplied By Others. Fixtures are NOT Designed for Use with Line Voltage Dimmers.

#### Warranty:

7-Year Warranty for -40°C to +50°C Environment.





## **Dimensions**

Width (D) 15¾" (400mm) Length (B) 22" (559mm)

Height (A)

4" (102mm)

#### Length with Mount (L)

Side Mount Pole Arm (KH25A): 191/4" (491mm) Slipfitter (SSF): 18¾" (476mm) Mounting Arm Adaptor (ALMAA): 19¾" (486mm)

Yoke (KH25Y): 18" (457mm) Bracket (SSB): 183/4" (476mm

Easy-Hang Wall Bracket (KHEH): 16" (406mm)



## **Knight Guard Technology**

Complete Units Ordering Information Example: EES-KH45-F1X180U-

KG-CZKH25ASP

#### EES-KH45

Model	Optics/Beams	Wattage	Driver	CCT	Lens	Color	Mounting	Options
		1X180=180w* 1X250=250w	U=120-277V H=347-480V*			Z=Bronze C=Custom		
		<b>1X293</b> =293w	*65 & 81w Models			(Consult Factory)	KH25A=Kitty Hawk	Arm
	Only		C=Standard Clear Flat Glass Lens S=SoftLED Flat Glass Lens* *Type V Models Only		SSF= Slipfitter ① ALMAA= Mounting Arm Adapter KH25Y=Yoke SSB=Two-Piece Swivel Bracket ① KHEH=Easy-Hang Wall Bracket NM=No Mount			
		<b>KG</b> =Knight Gua	rd Less Than 2 Percent	Blue Light				
<b>ES-KH25</b> =LFG	Small Slimline Area, Wall, and	d Flood Light					neights of 20ft to 35ft	

① Maximum tilt angle of 45° above horizontal with R3, R5, or R7 photocell receptacle options









**M2**=Motion Sensor, IR for mounting heights of 18ft or less **R3**=3-Pin Twist Lock Photocell Receptacle (1)

R5=5-Pin Twist Lock Photocell Receptacle ①

R7=7-Pin ANSI C136.41—2013 Twist Lock Photocell Receptacle ① S23=Internal Microwave Sensor with dimming for mounting heights of 25' or less.\*

\$43=Microwave On/Off Motion Sensor for Mounting Heights of 8' to 19'.

\*120-277V Model Only

# **EES-KH25 Knight Guard Knight Guard LED Large Slimline Area, Wall, and Flood Light**



#### **Addition al Mounting Options**



EES-KH45Q Shown with "KH45A" Kitty Hawk Arm, Kitty Hawk Die-Cast Mounting Arm, Bronze Powdercoat Finish, Includes Hardware. Mounts Directly to Square Poles. Replacement Model KH45AZ.



EES-KH45Q Shown with "ALMAA" Pole Mounting Arm Adaptor, Die-Cast Adaptor for 2%" Horizontal Mounting Arms, Bronze Powdercoat Finish, Includes Hardware. Replacement Model ALMAAZ.



**EES-KH45Q Shown with "KH45Y" Yoke,**Stamped Heavy-Duty Steel Yoke, Bronze Powdercoat Finish,
Includes Hardware. Replacement Model KH45YZ.



EES-KH45Q Shown with "SSF" External Mount Slipfitter, External Mount Die-Cast Adjustable Slipfitter for 2%" Tenons, Bronze Powdercoat Finish, Includes Hardware. Replacement Model SSE7



**EES-KH45Q Shown with "SSB" Two-Piece Swivel Bracket,** *Two-Piece Stamped Steel Adjustable Bracket, Bronze Powdercoat Finish, Includes Hardware. Replacement Model SSBZ.* 



EES-KH45Q Shown with "WM" Wall Mount Bracket, Wall Bracket, Heavy-Duty Stamped Steel, Bronze Powdercoat Finish, Includes Hardware. Replacement Model WBR2Z

#### Notes

Maximum tilt angle of 45° above horizontal with R3, R5, or R7 photocell receptacle options

### EPA (Effective Projected Area) Shown with Large Stealth Arm mounting

Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
1	1.00	33 Lbs

Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
<b>2</b> @180° Mount	2.00	66 Lbs
2@90° Mount	1.36	66 Lbs

Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
<b>∏</b> <b>— — —</b> 3@90° Mount	2.20	99 Lbs
<b>♦</b> ♦ 3@120° Mount	2.00	99 Lbs

Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
4@90° Mount	2.20	132 Lbs

#### **Accessories & Replacement Parts:**



PTSB290SZ PTSB2180SZ PTSB390SZ\*



PTSB3120SZ\* PTSB490SZ\* ACCHSG1Z





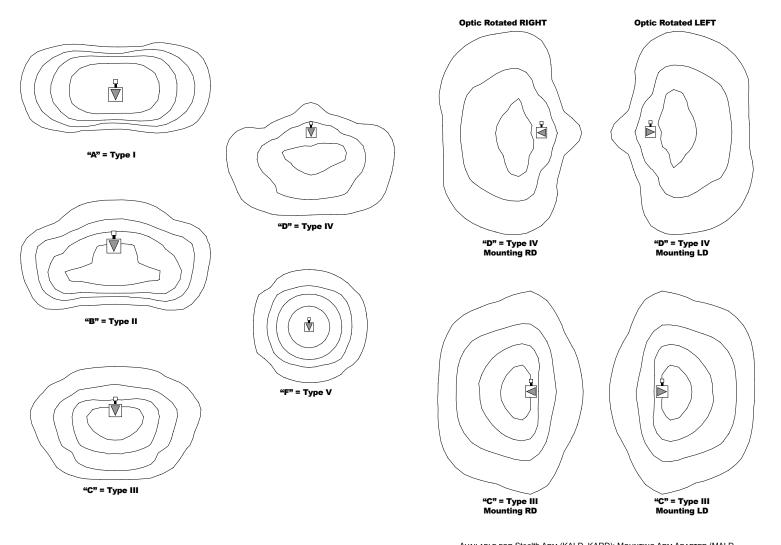
Mounting Accessories (Order Separately, Field Installed)					
KH20RPZ	Die-Cast Adaptor for 3" to 5" Round Poles, Bronze Powdercoat Finish. Use with KH25A Kitty Hawk Mounting Arm only.				
KH20WMZ	Die-Cast Wall Mount Adaptor, Bronze Powdercoat Finish. Use with KH25A Kitty Hawk Mounting Arm only.				
PTSB1SZ	Single Pole Tenon Spoke Bracket, 2%" Horizontal Mounting Arm, Bronze Powdercoat Finish, Includes Hardware.				
PTSB290SZ	Twin Pole Tenon Spoke Bracket, 2%" Horizontal 90° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.				
PTSB2180SZ	Twin Pole Tenon Spoke Bracket, 2%" Horizontal 180° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.				
PTSB390SZ*	Triple Pole Tenon Spoke Bracket, 2%" Horizontal 90° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.				
PTSB3120SZ*	Triple Pole Tenon Spoke Bracket, 2%" Horizontal 120° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.				
PTSB490SZ*	Quad Pole Tenon Spoke Bracket, 2%" Horizontal 90° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.				
*Non-stock item	Consult factory for lead time.				

Accessories (Order Separately, Field Installed)		Replacement Parts (Order Separately, Field Installed)				
P18131	Twist Lock Non-Shorting (Open) Cap	KH25GL	Tempered Clear Flat Glass Lens.			
P18131	KH25GLSS	SoftLED Flat Glass Lens				
			Kitty Hawk Die-Cast Mounting Arm,			
P18132	Fixed Service to Fixture (Fixture Always on). IP65, Rated Load 7200w		Bronze Powdercoat Finish, Includes Hardware. Mounts Directly to Square Poles.			
SS		SSFZ	External Mount Die-Cast Adjustable			
P18140	110 1201/10 11:0:0:1:1 11:0:1 200:1		Slipfitter for 23/8" Tenons, Bronze Powdercoat Finish, Includes Hardware.			
P18152		ALMAAZ	Die-Cast Adaptor for 23/8" Horizontal Mounting Arms, Bronze Powdercoat Finish. Includes Hardware.			
P18156	120 211 W to Other order 1 Wildt 200K	KH25YZ	Stamped Heavy-Duty Steel Yoke, Bronze Powdercoat Finish. Includes			
P18157			Hardware.			
•		SSBZ	Two-Piece Stamped Steel Adjustable Bracket. Bronze Powdercoat Finish.			
ACCHSG12	Installing Sensors or Other Lighting		Includes Hardware.			
	,	KHEHZ	Die-Cast Easy-Hang Wall Bracket,			
KH25GSZ	Bronze Powdercoat Finish, Includes		Bronze Powdercoat Finish, Includes Hardware.			
KHJEWC		P17117	Internal Microwave Sensor with			
KHZ5WG			Dimming, 120-277VAC, 50/60Hz. See P17117 Specification Page for Details.			
ACCHSG3 Bronze UV-Stabilized Polycarbonate Housing for Installing Sensors, Includes Sensor Bracket and Gasket.		P17123	Internally Mounted Microwave On/Off Motion Sensor for Mounting Heights of 8' to 19', 120-277VAC, 50/60Hz			
SSBS	Stainless Steel Bird Spikes					



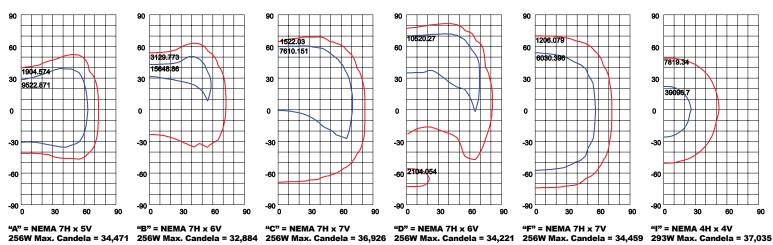
#### PHOTOMETRIC DATA

#### **IES ROADWAY DISTRIBUTION OPTICS**



AVAILABLE FOR Stealth ARM (KALD, KARD); MOUNTING ARM ADAPTER (MALD. MARD); AND SLIPFITTER (SFLD, SFRD).

#### **NEMA FLOOD LIGHT DISTRIBUTION OPTICS**



# EES-KH25 Knight Guard Knight Guard LED Large Slimline Area, Wall, and Flood Light



#### **Photometric Perform ance**

					Knight Guard < 2 Percent Blue Light				
LED Board Watts	Drive Current (mA)	Input Watts		Optics	Lumens	LPW	В	U	G
			С	Type III	27,000	150	2	0	2
LED 180w	525	180	D	Type IV	-	-	-	-	-
			F	Type V	27,000	150	2	0	0
	525	250	Α	Type I	37,500	150	3	0	2
			В	Type II	37,500	150	2	0	2
LED 250w			С	Type III	37,500	150	2	0	2
			D	Type IV	37,500	150	1	0	2
			F	Type V	37,500	150	3	0	1
			Α	Type I	43,950	150	3	0	2
			В	Type II	43,950	150	2	0	2
LED 293w	525 293	293	С	Type III	43,950	150	3	0	3
			D	Type IV	43,950	150	2	0	3
			F	Type V	43,950	150	3	0	1